

1. BOSC 2017 Nominations

Self Nomination:

Yes

Nominator Information

First Name

Last Name

Nominator Title

Street Address

City

State

Postal Code

Email Address

Phone Number

Mobile Phone

Nominee Information

First Name

Andrew

Last Name

DeGraca

Nominee Title

Water Quality Division Director

Street Address

Exemption 6

Employment Information

Place of Employment/Work:

San Francisco Public Utilities

ANDREW F. DeGRACA, P.E.

EXPERIENCE (Past ~30 years)

1994–Present San Francisco Public Utilities Commission Burlingame, CA
Water Quality Division Director

- Direct staff of ~150 employees (biologists, chemists, engineers, inspectors, technicians, administration, etc.). Budget \$15 – 20M/year.
- Establish operating targets and ensure compliance with regulatory standards through monitoring, reporting, inspections, etc.
- Oversee water quality and treatment applied research
- Participate in organizational (i.e., SFPUC Performance Assessment Project Advisory Committee) and capital planning efforts (i.e., SFPUC CIP Steering Committee)

5/04 – 2/05 San Francisco Public Utilities Commission San Francisco, CA
Acting Assistant General Manager for Operations

- Directed operation of water, wastewater, and power utilities which included staff of 1400 employees. Budget ~\$400M/year.
- Assessed organizational effectiveness and implemented organizational, administrative, and operational changes
- Built and maintained effective working relationships with customers and stakeholders
- Advised and assisted with the development and implementation of the \$4 billion capital improvement program
- Served as consultant and advisor to executive staff, General Manager, SFPUC Commission, and elected officials

1989–1994 San Francisco Water Department Millbrae, CA
Asst. Water Purification/Assoc. Sanitary/Sanitary Engineer

- Project Engineer of the Water Quality Planning Study (\$6,000,000)
- Project Engineer of the Hetch Hetchy Water Treatment Plant Project
- Project Manager of the Hetch Hetchy Filtration Waiver Project

1988–1989 San Francisco Clean Water Program San Francisco, CA
Junior Civil Engineer

- Inspected and documented SEWPCP (210 mgd) water systems
- Tested prototype Dynasand Filter for wastewater reclamation project
- Team member of project to increase WPCP capacity by 100 – 200 mgd

EDUCATION

1986 B.S., Chemical Engineering, University of California Berkeley, CA

PROFESSIONAL LICENSES/CERTIFICATION

- **Professional Chemical Engineer**, CA 4626
- **ICS** 100, 120, 130, 200, 300, 322, 400, 700, 800, 803, 808, L-966

PROFESSIONAL ASSOCIATIONS

American Institute of Chemical Engineers (AIChE)
Association of Metropolitan Water Agencies (AMWA)
American Water Works Association (AWWA)
International Water Association (IWA)
Water Environment Federation (WEF)
California Water Environment Association (CWEA)

COUNCILS/DIVISIONS/COMMITTEES

Association of California Water Agencies (ACWA)

ACWA Water Quality Committee (2002 – 2003, 2007 - present)
Clean Water Subcommittee (1999-2007)
Safe Drinking Water Act Subcommittee (1999-2007)

ACWA Joint Water Quality/Communication Subcommittee (1999-2007)

ACWA Federal Affairs Committee (2012 – 2013)

American Metropolitan Water Agencies (AMWA)

AMWA Climate Change Committee (2008 - present)

AMWA Regulatory Committee (2005 - present)

American Water Works Association (AWWA)

AWWA Board of Directors (2011 – 2014)

Executive Committee 2011 – 2014

Standard C906 Appeal Hearing Subcommittee (2013)

Sustainability Initiatives Implementation Committee, Chair (2010-2011)

Presidential Sustainability Ad Hoc Committee, Chair (2009)

Outstanding Service to AWWA Award Committee (2011 – 2014)

AWWA Water Utility Council (2008 – 2014, 2015 - present)

WUC Regulatory Committee (2008 - 2014)

Climate Change Technical Advisory Workgroup (2008 -)

Technical Advisory Group (2002 – 2005)

Risk Management Technical Advisory Workgroup (1997-2004)

Workgroup Chair (2002 - 2004)

Filter Backwash Recycle Rule Ad-Hoc Committee (1998-2000)

AWWA Technical & Educational Council (2004 – 2007, 2008 - 2014)

Chair (2011 – 2014)

Vice Chair (2009 - 2011)

TEC Executive Committee (2009 – 2014)

TEC Technical Resources Committee (2004 – 2005, 2008 - 2011)

TEC Conference Planning Committee (2005 – 2007)

Water Quality & Technology Division (2000 – 2007)

WQ&TD Chair (2004 – 2007)

WQ&TD Vice-Chair (2000 – 2004)

Organic Contaminants Control Committee, Chair (1999-2000)

Control of Water Quality in Trans. and Dist. Systems Committee (1998-2006)

Water Quality & Technology Conference Planning Committee (2001 – 2008; 2006 Chair)

2005 Annual Conference & Exposition Local Arrangements Committee Chair

2010 Sustainable Water Management Conference Planning Committee

AWWA Source Water Protection Accreditation Workgroup (2000 – 2001)

AWWA Distribution System Accreditation Workgroup (1998-2000)

AWWA California-Nevada Section

Board of Directors (2009 – 2012; 2013 – 2016)

Trustee (2013 – 2016)

CA-NV George Warren Fuller Award Committee (2012 - 2017)

Government Affairs Committee (2004 – present)

Chair (2009 – 2012)

Vice Chair (2007 – 2009)

DC Fly-In (2004 - 2011)

Safe Drinking Water Act Committee (2008 – present)

SOURCE Editorial Advisory Committee (2015 – 2017)

Spring Conference 2006 - Local Arrangements Committee Chair

Strategic Plan Update Ad Hoc Committee Chair (2016 – 2017)

System Water Quality Committee (1994-98)

Water Quality Trustee (2013 – 2016)

Water Treatment Committee (1994-98)

Water Research Foundation (WaRF) – formerly known as AwwaRF

WaRF Focus Area Council (2011 - 2012)

WaRF Program Chairs Committee (2002, 2004 – 2011)

WaRF Climate Change Strategic Initiative Expert Panel (2007 - 2011)

Chair (2007 - 2011)

AwwaRF Unsolicited Research Program Chair (2005 – 2009)

AwwaRF Research Advisory Council (2001 – 2007)

Efficient Customer and Responsive Organization Workgroup (2001 – 2007)

Chair (2002, 2004)

Environmental Leadership Workgroup (2001)

EXPERT PANELS/SPECIAL PROJECTS

ASSET MANAGEMENT

AwwaRF Project Advisory Committee #4002 for "Asset Management Research Needs Roadmap" (2006 – 2007)

CLIMATE CHANGE/SUSTAINABILITY

Water Research Foundation/NOAA/EPA/NASA/WERF/UCAR “The Future of Research on Climate Change Impacts on Water – A Workshop Focusing on Adaptation Strategies and Information Needs” Denver, CO, September 2010

AWWA Presidential Ad Hoc Sustainability Strategy Development Committee (2009), Chair

AwwaRF Project Advisory Committee #4208 for "Identifying and Developing Climate Change Resources for Water Utilities: Content for a Central Knowledge Repository Website " (2008 – 2010)

AWWA Climate Change Technical Advisory Workgroup (2008 -)

AMWA Climate Change Committee (2008 -)

AwwaRF Climate Change Strategic Initiative Panel (2008 - 2011)

Chair (2008 - 2011)

AwwaRF/WERF/UKWIR Climate Change Research Needs Workshop (Chair), Denver, CO, January 2008

United Kingdom Water Industry Research/AwwaRF Climate Change Research Workshop, Edinburgh, Scotland, September 2007

DISTRIBUTION SYSTEM

AwwaRF Project Advisory Committee #2522 for a “Guidance Manual for Monitoring Distribution System Water Quality” (1998-2001)

AWWA Control of Water Quality in Trans. and Dist. Systems Committee (1998-present)

AWWA Distribution System Accreditation Workgroup (1998-2000)

AwwaRF Project Advisory Committee #357 for a “Guidance Manual to Maintain Water Quality Within Distribution Systems” (1996-99)

EMERGENCY/SECURITY

EPA Board of Scientific Counselors Homeland Security Committee (2014 – present). Secret Security Clearance

EPA Water Security Initiative Contamination Warning System Pilot Project Grant [\$8.1 million grant/\$11.3 million total] (2008 – 2012)

AwwaRF Project Advisory Committee #2929 for "Emergency Response and Recovery Planning for Water Systems: A Kit of Tools" (2003 – 2005)

EPA Utility Workgroup for "Response Protocol Toolbox: Planning for and Responding to Drinking Water Contamination Threats and Incidents" (2003)

ENERGY

AwwaRF Project Advisory Committee #4139 for "A New Water Source: Can Fuel Cells Provide Safe & Cost-Effective Potable Water Sources?" (2007 – 2009)

AwwaRF Project Advisory Committee #4090 for "Decision Support System for Sustainable Energy Management" (2007 – 2009)

PUBLIC HEALTH

Univeristy of California at San Francisco (UCSF) Lead in Drinking Water Scientific Advisory Group (2016 – 2017)

AwwaRF Project Advisory Committee #4214 for "Adaptation of the Minimum Anticipated Biological Effect Level (MABEL) Approach to Developing Acceptable Daily Intakes for Emerging Compounds of Interest " (2008 – 2010)

AwwaRF Project Advisory Committee #2851 for “Water Utility Collaboration With the Health Community to Enhance Communications on Drinking Water Issues” (2002 - 2005)

AWWA Project Advisory Committee for WITAF #383 “Recognizing Waterborne Disease and the Health Effects of Pollution: Development and Implementation of an Educational Outreach Model for Practicing Physicians – Phase 1” (2000 – 2002)

PEER REVIEW

Journal - American Water Works Association

Manuscript Peer Review (2004)

Peer Review Editorial Board (2006 – 2010)

STRATEGIC/BUSINESS PLANNING

AWWA CA-NV Section Strategic Plan Update Ad Hoc Committee Chair (2016 – 2017)

WaRF Project Advisory Committee #4232 for "Forecasting the Future: Progress, Changes and Predictions for the Water Sector" (2009 – 2010)

AwwaRF Project Advisory Committee #3029 for "Update of the Strategic Assessment of the Future of Water Utilities" (2003 – 2005)

AwwaRF Project Advisory Committee #3023 for "A Strategic Assessment of the Future of Water Utilities" (2003 – 2004)

AwwaRF Project Advisory Committee #3003 for "Decision Process and Trade-Off Analysis Model for Supply Rotation and Planning" (2003 – 2004)

AwwaRF Project Advisory Committee #2929 for "Emergency Response and Recovery Planning for Water Systems: A Kit of Tools" (2003 – 2005)

AwwaRF Project Advisory Committee #2853 for “Decision Support System for Sustainable Water Supply Planning” (2002 - 2004)

AwwaRF Project Advisory Committee #2698 for “Using Strategic Business Planning As a Water Resource Management Strategy for Addressing Multiple Conflicting Constraints” (2000 - 2002)

WATER QUALITY

Univeristy of California at San Francisco (UCSF) Lead in Drinking Water Scientific Advisory Group (2016 – 2017)

WaRF Project Advisory Committee #4524 for “Impacts of Wildfires on Source Water Quality and Implications for Water Treatment and Finished Water Quality” (2103 – 2014)

AwwaRF Project Advisory Committee #4214 for "Adaptation of the Minimum Anticipated Biological Effect Level (MABEL) Approach to Developing Acceptable Daily Intakes for Emerging Compounds of Interest " (2008 – 2010)

AWWA Project Advisory Committee WITAF #315 “Secondary Disinfection Practices Survey” (2004 - 2005)

AWWA Source Water Protection Accreditation Workgroup (2000 – 2001)

AWWA Project Advisory Committee for WITAF #361 “Impacts of Spent Filter Backwash Recycle on Cryptosporidium Removal” (1999-2000)

EPA/AwwaRF #2631 Contaminant Candidate List Research Needs Assessment, September 1999

EPA Information Collection Rule Public Database Work Group (1998-99)

AwwaRF Project Advisory Committee #2522 for a “Guidance Manual for Monitoring Distribution System Water Quality” (1998-2001)

AWWA Distribution System Accreditation Workgroup (1998-2000)

AWWA Filter Backwash Recycle Rule Ad-Hoc Committee (1998-2000)

AwwaRF Project Advisory Committee #357 for a “Guidance Manual to Maintain Water Quality Within Distribution Systems” (1996-99)

AwwaRF “Cryptosporidium: Answers to Questions Commonly Asked by Drinking Water Professionals,” July 1996

AWWA Ca-Nv Section Water Treatment Committee (1994-98)

AWWA Ca-Nv Section System Water Quality Committee (1994-98)

WATER SUPPLY

WRF Project Advisory Committee #4665 for "Conventiona[n]l Drinking Water Treatment of Alternative Water Sources: Source Water Requirements" (2016 – 2017)

AwwaRF Project Advisory Committee #4139 for "A New Water Source: Can Fuel Cells Provide Safe & Cost-Effective Potable Water Sources?" (2007 – 2009)

AwwaRF Project Advisory Committee #3003 for "Decision Process and Trade-Off Analysis Model for Supply Rotation and Planning" (2003 – 2004)

AwwaRF Project Advisory Committee #2950 for "Regional Solutions to Developing Water Supplies" (2003 – 2005)

AwwaRF Project Advisory Committee #2853 for “Decision Support System for Sustainable Water Supply Planning” (2002 - 2004)

AwwaRF Project Advisory Committee #2698 for “Using Strategic Business Planning As a Water Resource Management Strategy for Addressing Multiple Conflicting Constraints” (2000 - 2002)

APPLIED RESEARCH

Water Research Foundation (formerly AwwaRF)

- 'Disaster Response, Recovery, & Business Continuity Planning' (Utility Participant)
- 'Balancing Multiple Water Quality Objectives' (Utility Participant)
- National Assessment of Particle Removal by Filtration (Utility Participant)
- Assessment of TOC Analytical Accuracy with Reference to the D/DBP Rule (Utility Participant)
- Evaluation of Sources of Pathogens and NOM in Watersheds (Utility Participant)
- Corrosion and Metal Release From Lead-Containing Plumbing Materials: Influence of NOM and Corrosion Mitigation (Utility Participant)
- Molecular Epidemiology of Cryptosporidium (Utility Participant)

San Francisco Public Utilities Commission

- Water Quality Planning Study (\$6,000,000) 1989 to 1995

USEPA Water Security Initiative Contamination Warning System (CWS) Pilot Project (2008 – 2012)

- Awarded \$8M national competitive grant (total project value of \$11M) to help develop national CWS pilot in San Francisco. Pilot results will be used to develop national model and guidance manuals.

PAPERS & PRESENTATIONS

Andrew DeGraca; "Lead Legislative and Regulatory Update" AWWA CA-NV 2017 Spring Conference, Anaheim, CA, April 2017

Andrew DeGraca; "Could Flint's Water Crisis Happen in California?" The Bar Association of San Francisco October 13, 2016

Andrew DeGraca; Lane, C.; Welch, C. "Committee Report: AWWA takes a leadership role on sustainability" Journal AWWA June 2010

Andrzej Wilczak; Hokanson, D.; Trussell, R; Boozarpour, M.; and DeGraca, A. "Water conditioning for LCR compliance and control of metals release in San Francisco's water system" Journal AWWA March 2010

Andrzej Wilczak; Boozarpour, M.; DeGraca, A.; and Daniel, P "San Francisco Water Quality Protection Plan" AWWA Annual Conference and Exposition, San Diego, CA June 2009

Andrew DeGraca; "San Francisco's Chloramination Experience" AWWA Water Quality & Technology Conference, Charlotte, NC November 2007

Andrew DeGraca; "North American Overview" United Kingdom Water Industry Research/ AwwaRF Climate Change Research Workshop, Edinburgh, Scotland, September 2007

Enio Sebastiani; Boozarpour, M.; DeGraca, A.; Ahmadzadeh, B.; Moughamian, M.; and Price, M. "Implementing Ultraviolet Disinfection for San Francisco' Unfiltered Supply" World Congress on Ozone and Ultraviolet Technologies, Los Angeles, CA, August 2007

Andrzej Wilczak; Boozarpour, M.; DeGraca, A.; Weintraub, J.; and Garrett, S. "Impact of Chloramine on San Francisco's Water Quality Three Years after Conversion from Free Chlorine" AWWA Annual Conference, Toronto, Canada, June 2007

Andrew DeGraca; "San Francisco's Chloramine Conversion Experience" USEPA/NYDEP The Future of Engineering and Water Quality Into the Next Century Conference, New York City, NY, October 2005

Manouchehr Boozarpour; DeGraca, A.; Daniel, P.; and House, L. "San Francisco's Emergency Drinking Water Supply" AWWA Annual Conference, San Francisco, CA, June 2005

Eddy So; Manouchehr B.; Caskey, P.; and DeGraca, A. "San Francisco's Drinking Water Lead Exposure Reduction Program" AWWA Annual Conference, San Francisco, CA, June 2005

Andrew DeGraca; "The BASIC Facts: A Multi-Agency Approach to Addressing the New Security Needs of Bay Area Water Utilities" AWWA Water Quality & Technology Conference, Seattle, WA, November 2002

Andrew DeGraca; Leonard, Steve "Communicating with Sensitive Sub-Populations in San Francisco" AWWA Annual Conference, Washington, DC, June 2001

Thomas West; Boozarpour, M.; Chmelik, D.; Daniel, P.; DeGraca, A.; Hou, S.; and Labonte, J. "The Effects of Ozone and Chloramination on Distribution System Regrowth." Proceedings of the AWWA Annual Conference; Dallas, TX, June 1998.

Alan Wong; Boozarpour, M.; Clark, R.; Demeduk, P.; DeGraca, A.; and Sebastiani, E. "San Francisco's Experience with Enhanced Coagulation." Proceedings of the AWWA Annual Conference; Dallas, TX, June 1998.

Enio Sebastiani; Boozarpour, M.; DeGraca, A.; Price, D.; and Price, M. "San Francisco's Experience with the Partnership Program." Proceedings of the AWWA Water Quality Technology Conference, Denver, CO, June 1997.

Thomas West; Demeduk, P.; DeGraca, A.; Labonte, J.; Teefy, S.; and Williams, G. "Using Particle Counting to Effectively Monitor and Optimize Treatment." Proceedings of the AWWA Annual Conference; Atlanta, GA, June 1997.

Julie Labonte; Clancy, J.; Daniel, P.; DeGraca, A.; and West, T. "Beyond the Limit: Evaluating Inactivation for Non-Published Water Treatment Conditions." AWWA Cal-Nevada Conference; April 1997.

Andrew DeGraca; and Daniel, P. "Reliability in San Francisco: Short-Term and Long-Term Strategies." AWWA Annual Conference; Toronto, Ontario, Canada, June 1996.

Phillippe Daniel; DeGraca, A.; and Leonard, S. "Risk Reduction Paradigm: Implications for Decision Making." Proceedings of the AWWA Annual Conference; Toronto, Ontario, Canada, June 1996.

Thomas West; Daniel, P.; DeGraca, A.; and Meyerhofer, P. "Evaluation of *Cryptosporidium* Removal through High-Rate Filtration." Proceedings of the AWWA Annual Conference; New York City, NY, June 1994.

Phillippe Daniel; DeGraca, A.; Leonard, S.; Meyerhofer, P.; and West, T. "Ozone for *Cryptosporidium* Inactivation: The San Francisco Experience." Proceedings of the International Ozone Association's 11th World Congress; San Francisco, CA, August 1993.

Phillippe Daniel; DeGraca, A.; Leonard, S.; Meyerhofer, P.; and West, T. "Comparing Granular and Membrane Filtration Processes." AWWA/IWSA Membrane Technology Transfer Conference; Baltimore, MD, August 1993.

AWARDS

AWWA 2012 George Warren Fuller Award

AWWA 2012 & 2016 CA-NV Section Leadership Award

AWWA 2011 Water Quality & Technology Division Best Paper Award

AWWA 2011 Public Communications Achievement Award

AWWA 2006 CA-NV LAC Chair Award

AWWA 2005 CA-NV Section Special Award for DC Fly-In

Mayor's Award of Honor – Loma Prieta Earthquake Emergency (1989)

Work Street Address

1657 Rollins Road

Work City

Burlingame

Work State:

California

Work Postal Code

94010

Work Phone Number

650-652-3102

Work Email Address

adegraca@sfwater.org

Sector

Industry

Qualifications**Primary Area(s) of Expertise**

Utility Management, Water Quality, Emergency Response

Committee Preference(s)

Executive Committee

Homeland Security Subcommittee

Statement of Interest

I would like to continue serving on the BOSC Homeland Security Subcommittee in a leadership position (Chair or Vice Chair).

Skills/qualifications related to committee preference(s) specified

Have served on the Homeland Security Subcommittee for the past 2.5 years. Oversaw the SFPUC Water Security Initiative Contaminant Warning System project (\$8M EPA grant). Significant real-world utility emergency response experience and training.

Other Relevant Information

Extensive water industry professional network.

CV/Resume URL**2. CV/Resume**

Please upload your CV/ Resume.

[Resume_June_2017.doc](#)

3.**BOSC Nomination**

Jun 15, 2017 15:34:46 Success: Email Sent to: tracy.tom@epa.gov

4. Thank You for your Submission!